

Notice of Allowability

Application No.

10/674,363

Examiner

Antonio A. Caschera

Applicant(s)

DIEFENBAUGH ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to afterfinal amendment filed 03/27/07.
2. ☒ The allowed claim(s) is/are 96-105 and 123-130.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brent Vecchia on 04/09/07. The substance of the telephone interview can be found on the attached Examiner-Initiated Interview Summary sheet.

The application has been amended as follows:

What is claimed is:

1-95. (Cancelled)

96-97. (Previously Presented)

98. (Currently Amended) An apparatus comprising:

a first memory to store color data for ~~in an~~ image, wherein the color data is stored in a first color space;

a first conversion agent communicatively coupled with the first memory to receive the color data in the first color space and to convert the color data to a second color space;

a color brightness agent communicatively coupled with the first conversion agent to modify color brightness characteristics, using the second color space, of one or more portions of

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the image, wherein the color brightness agent is to modify the color brightness characteristics based at least in part on a change in backlight intensity;

a second conversion agent communicatively coupled with the color brightness agent to convert the color data from the second color space to a third color space;

a gamma control agent communicatively coupled with the second conversion agent to selectively perform a gamma transformation on the color data in the third color space;

a second memory communicatively coupled with the gamma control agent to store the modified color data in the third color space, wherein the third color space is the color space to be used to display the image;

a color control agent communicatively coupled with the second memory to further modify the modified color data in the third color space, wherein the color control agent uses a color look-up table storing data in the first color space to further modify the color data; and

a third memory communicatively coupled with the color control agent to store the further modified color data in the third color space.

99-104. (Previously Presented)

105. (Currently Amended) *The apparatus of claim 98, wherein the color brightness agent controls a backlight intensity of ~~the~~a display device.*

106-122. (Cancelled)

123. (Previously Presented)

124. (Currently Amended) *A system comprising:*

a bus;

a graphics accelerator;

a first memory coupled with the bus to store color data for ~~an~~ an image, wherein the color data is stored in a first color space;

a first conversion agent communicatively coupled with the bus to receive the color data in the first color space and to convert the color data to a second color space;

an ambient light sensor communicatively coupled with the first conversion agent;

a color brightness agent communicatively coupled with the bus to modify color brightness characteristics of one or more portions of the image, wherein the color brightness agent is to modify the color brightness characteristics based at least in part on a change in backlight intensity;

a second conversion agent communicatively coupled with the bus to convert the modified color data from the second color space to a third color space, wherein the third color space comprises the color space to be used to display the image;

a gamma control agent communicatively coupled with the second conversion agent to selectively perform a gamma transformation on the color data in the third color space;

a second memory communicatively coupled with the bus to store the transformed color data in the third color space;

a color control agent communicatively coupled with the second memory to further modify the transformed color data in the third color space, wherein the color control agent uses a color look-up table storing data in the first color space to further modify the color data; and

a third memory communicatively coupled with the color control agent to store the further modified color data in the third color space.

125-129. (Previously Presented)

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130. (Currently Amended) The system of claim 124, wherein the color brightness agent is to control a backlight intensity of the display device.

131-153. (Cancelled)

Allowable Subject Matter

2. Claims 96-105 and 123-130 are allowed.
3. The following is an examiner's statement of reasons for allowance:

In reference to claims 98 and 124, the prior art of record does not explicitly disclose the color brightness characteristics of a display device being modified based at least in part on a change in backlight intensity along with a color control agent using a color lookup table storing data in the first color space to further modify the color data in combination with the further limitations of claims 98 and 124 respectively.

In reference to claims 96, 97, 99-105, 123 and 125-130, claims 96, 97, 99-105, 123 and 125-130 depend upon allowable claims 98 and 124 and are therefore also deemed allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

4. The cancellation of claims 79-95, 106-122 and 131-153 is noted.

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5. Applicant's arguments, see pages 7-8 of Applicant's Remarks, filed 03/26/07, with respect to prior art rejection of the claims have been fully considered and are persuasive. The prior art rejection of the pending claims has been withdrawn since previously objected to claims have been written in independent form including all of the claim limitations of the base claim and any intervening claims. Also, other previously rejected claims have now been cancelled placing the application in condition for allowance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Antonio Caschera whose telephone number is (571) 272-7781. The examiner can normally be reached Monday-Thursday and alternate Fridays between 7:00 AM and 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung, can be reached at (571) 272-7794.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

571-273-8300 (Central Fax)

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (571) 272-2600.

aac



4/9/07

Antonio Caschera
Patent Examiner



KEE M. TUNG
SUPERVISORY PATENT EXAMINER